CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 1 & 2 Equipment (=> $1M)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
	FY 2005 Actual			FY 2006 Estimate			FY 2007 Estimate					
ELEMENTS OF COST	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Non ADP	1		1.000	2		3.519						

Narrative Justification:

FY 2005 Estimate

Paint Booth and Air Handling System (Productivity, Barstow) - $1.000M. Originally programmed for FY 2004, project slipped to FY 2005 pending the outcome of a Businicess Case Analysis to validate technology, risk, and workload. Procurement specifications developed for procurement in FY2005. Workload consists of 4,836 hrs/yr to paint over 1,045 vehicles per year. Benefits derive from relieving the overtime requirement (2,496 hrs/yr) from painting workload. The productivity enhancement project's BIR is 1.12 and investment cost is $1.025M.

FY 2006 Estimate

Robotics Painting System (Productivity, Barstow) - $2.470M. Originally programmed for FY 2004 the project slipped into FY 2006. The pending surge in reconstituted workload from the Middle East has taken priority over peace time planning. A Business Case Analysis and demonstration of the technology is pending. In the meantime, procurement specifications are being developed for procurement in FY2006. Workload consists of 11,200 hrs/yr for 7 workers to paint over 2500 vehicles per year. Benefits derive from the relieving 6 workers from painting and reducing the maintenance parts and labor costs to paint. Thus, the workload hrs to paint are reduced to 1,600 hrs/yr. The productivity enhancement project's BIR is 2.26 and investment cost is $2.470M.

Dynamometer Engine (Productivity, Albany) - $1.049M. This project was originally submitted for execution in FY 2005. As a result from anticipated reconstituted workload from the Middle East, higher priority projects were reprogrammed into FY2005 and this dynamometer project is now planned for FY 2006. Workload includes 206 engines per year over 10 years for AAV, M88, and other end items. Benefits are derived from avoiding a $0.300M annual contract cost for engine testing. The productivity enhancement project's BIR is 2.44 and the investment cost is $0.550M.

FY 2007 No Projects

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 3 / Equipment (=> $0.500M and < $1M)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
ELEMENTS OF COST	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Non ADP	1		0.818				3		2.307			

Narrative Justification:

FY 2005

Conveyorized Paint System Upgrade (Productivity, Albany) - $0.818M. Reprogrammed from FY06 to FY05. Procurement specifications are currently being developed. Workload includes 3,068 DLH per year to paint items 500 pounds and below. Benefits are derived from saving 1,534 DLH currently used to paint items and reducing the maintenance cost of the equipment by 30%. The productivity enhancement project's BIR is 2.02 and the project will pay for itself in under 6 years.

FY2006: No Projects

FY2007

Caustic Cleaning System (Replacement, Barstow) - $0.745M. Procurement specifications are currently being developed to acquire the asset in FY 2007. The status quo equipment being replaced is over 30 years old. Workload includes 3,744 hrs/yr to clean surfaces by removing dirt, grease, corrosion, etc. Benefits are derived from reducing the time to clean by 624 hrs/yr. This replacement project's BIR is 1.01 and will pay for itself in under 10 years.

TOW Field Test Set (Replacement, Barstow) - $0.862M. Procurement specifications are currently being developed to acquire the asset in FY 2007. Work is currently being accomplished using status quo equipment, which is 20 years old and is no longer supported by the Army and/or supply system. Workload for the status quo requires 4680 labor hours yearly. The alternative method requires 2,340 labor hours yearly, which represents a savings of 50%. This replacement project’s BIR = 1.25 and has an invest- ment cost of $0.862M.

New Chassis Dynamometer (Replacement, Albany) - $0.700M. This project replaces the status quo dynamometer that is no longer supported because its manufacturer is out of business. The dynamometer is required to maintain current repair processes and qualifications for refirbished items. Workload consists of 372 DLH to perform a variety of tests on a variety of end items. Benefits are derived from avoiding the requirement to contract for these services if the status quo is not replaced. The replacement project's BIR is 1.80 and the project will pay for itself in under 6 years.

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 4 / Equipment (=>$0.250 and <$0.500)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Non ADP	1		0.387									

Narrative Justification:

FY 2005

Pressure Cleaning Machine (Productivity, Albany) - $.387M. This project provides a low pressure cleaning system using an approved EPA stripping chemical. Workload include AAV's 8/month, LAV 6/month, trucks 6/month, and MK48 10 /month. This replacement project's BIR = 2.15 and has an investment cost of $0.387M.

FY 2006 No Projects

FY 2007 No Projects

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 5/ Equipment (=>$0.100 and =<$0.250)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Non ADP	3		0.417				2		0.209			

Narrative Justification:

FY 2005

CNC Slant Bed Lathe (Replacement, Barstow) - $0.160M. Substitute project reprogrammed into FY 2005. Procurement specifications are being developed to acquire the asset in FY 2005. This project will replace a 22 year old machine. Workload includes 2,340 hrs/yr to fabricate plugs, spacers, bosses, and washers. Benefits are derived from reducing 1,300 hrs/yr the workload to fabricate parts. The replacement project's BIR is 3.91 and will pay for itself in about 2 years.

Hydraulic Test Bench (Replacement, Barstow) - $0.139M. Substitute project reprogrammed into FY 2005. Procurement specifications are being developed to acquire the asset in FY 2005. This project will replace a 12 year old machine. Workload includes 2,340 hrs/yr to test hydraulic components of end items being repaired. Benefits are derived from saving 1,560 hrs/yr workload to fabricate parts. The replacement project's BIR is 8.73 and will pay for itself in less than one year.

Rotoblast Machine (Replacement, Albany) - $0.118M. Procurement specifications are currently being developed to acquire the asset in FY 2005. The cost to rebuild the status quo machine is 100% the cost of a replacement machine over 10 years. Workload includes all small arms parts that require blasting to clean and remove oil/grease. Benefits are derived from increased efficiency of the replacement machine reduced down time due to the age of the status quo. The replacement project's BIR is 1.20 and the investment cost is $0.118M.

FY 2006 No Projects

FY 2007 Estimate

IR Target Projector (Replacement, Barstow) - $0.109M. Procurement specifications are currently being developed to acquire the asset in FY 2007. Work is currently accomplished using status quo equipment, which is 15 years old and the company who supplies the parts and software, is no longer in business. Workload for the status quo requires 2,340 labor hours yearly. The alternative method requires 1,170 labor hours yearly, which represents a savings of 50%. This replacement project’s BIR = 5.01 and has an investment cost of $0.109M.

Digital Photography Equipment (Environmental, Albany) - $.100M. Procure state-of-the-art digital x-ray system to eliminate the generation of hazardous waste material produced during the production of conventional x-rays. It will also eliminate the requirement for storage and disposal.

CAPITAL INVESTMENT JUSTIFICATION						A. Budget Submission						
(Dollars in Thousands)						Fiscal Year (FY) 2007 Budget Estimates - February 2006						
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 6/ ADPE & Telecom (=>$0.250)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
ELEMENTS OF COST	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Non ADP	1	170	170.000				-		-			

Narrative Justification:

FY 2005

Funds are required to acquire Concerto Software package for Mainenance Center, Barstow. Theory of Constraints (TOC) is the overarching methodology used for planning and executing all production projects within Maintenance Center, Barstow. The web-based Concerto, in conjunction with Microsoft Project, will allow the maintenance center to input, analyze, view, and make projections on how to maximize production processes by identifying and eliminating existing or anticipated constraints.

FY 2006 No Projects

FY 2007 No Projects

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 7 / Minor Construction (=>$0.250M and =< $0.750M)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Minor Construction	2		1.107									

Narrative Justification:

FY2005

35 Ton Crane For Annex (2ea) (Productivity, Albany) - 0.745 Procurement specifications are being developed to acquire the asset in FY 2005. This project will reutilize space freed by the installation of two paint booths. Workload includes the disassemble of AAV, LAV, trucks, and MK48 for combined 28 vehicles per month. Benefits are derived from the process change of removing the disassembly area from the main craneway where maintenance and reassembly of vehicles occur. The productivity enhancement project's BIR = 2.04 and will pay for itself in under nine years.

Paint Building for conveyor system, (Environmental/Safety, Albany) - 0.362 Substitute for Lead Line Building. **T**he RADIAC building is used to calibrate and repair equipment that detects ionizing radiation (geiger counters) and uses cesium as a calibration source. The Cesium source (Cs-137) is used in an Open Air Gamma calibration range. A limit to ionizing radiation is mandated to protect "members of the public" from overexposure (must not exceed 2mR/hr). Prevention of exposure to the public is mandated by the Code of Federal Regulations (CFR Title 10 (10CFR),CFR Title 29 (29CFR), CFR Title 40 (40CFR), CFR Title 49 (49CFR), the US Navy Safety Radiation Program, RAD -010 Radiological Affairs Support Program Manual, and Naval Radioactive Material Permit (NRMP) 10-67004-C1NP. This project does not require an economic analysis.

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description Continued - 7 / Minor Construction (=>$0.250M and =< $0.750M)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Minor Construction				1		0.745	3		2.145			

Narrative Justification:

FY2006

Install New Concrete Hardstand (Productivity, Albany) - 0.745 The hardstand will provide a secure place to stage vehicles and equipment arriving for repair and maintenance. Workload has increased due to implementation of best business practices and increasing end item quantities forcast in production work schedules. Since the status quo location of staging is about 1 mile round trip to the disassembly point, benefits will be derived from saving the time and labor to transport items over this distance to disassemble. The productivity enhancement project's BIR = 1.50 and will pay for itself in under 12 years.

FY2007

Material Handling Equip Facility (Productivity, Barstow) - 0.750 Procurement specifications are currently being developed to acquire the asset in FY 2007. This project will provide material handling functions for the Maintenance Center and other divisions and railhead. Workload includes the handling of materials, equipment, fuel, rigging, vehicles, and preventive maintenance. Benefits are derived from the reductions in facility maintenance, materials, utilities, and associated loss of production due to down time. The productivity enhancement project's BIR = 3.34 and will pay for itself in under six years.

Building For Composites (Productivity, Albany) - 0.745 The project will provide space to apply composite materials to equipment using matrix composition, honeycomb wafer construction,, or sprayed materials such as water module insulation material. Workload consists of 2.920 DLH to repair the new MTVR 7-Ton Truck, with composite hood and doors, and a variety of other equipments that utilize the previously mentioned materials. Benefits are about $220K savings per year from building the facility over leasing/contracting out the services. The productivity enhancement project's BIR = 4.40 and will pay for itself in under 4 years.

Construct 8000sqft Building (Productivity, Albany) - 0.650 This building will be used to kit repair parts and stage/store kits for scheduled workload for repair. Workload includes 4,000 DLH by expediters and material handlers to obtain and handle parts required for repair. Benefits are derived from the time saved by providing the parts in pre assembled kits. The productivity enhancement project's BIR = 2.01 and will pay for itself in under 9 years.

CAPITAL INVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 8 / Minor Construction (=>$0.100M and =< $0.250M)			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Minor Construction	1		0.205									

Narrative Justification:

FY2005

New Hardstand (Environmental/Safety, Albany) - 0.205 The hardstand will be used to securely store equipment and assets arriving for repair and maintenance. The new hardstand is needed to reduce the time for moving equipment/parts to other holding areas over 1/2 mile away. This project has a BIR of 1.50, w/payback of 11.72 years.

FY2006: No Projects.

FY2007: No Projects.

NVESTMENT JUSTIFICATION							A. Budget Submission					
(Dollars in Thousands)							Fiscal Year (FY) 2007 Budget Estimates - February 2006					
B. Component/Business Area/Date Marine Corps Depot Maintenance / February 2006				C. Line# and Description 9/ Software Development			D. Activity Identification MC Depots Albany, GA and Barstow, CA					
ELEMENTS OF COST	FY 2005 Estimate			FY 2006 Estimate			FY 2007 Estimate					
	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Softwware				1		0.250						

Narrative Justification:

FY2005: No projects

FY2006:

Funds will allow continued investments in support of Theory of Constraints (TOC) management.

FY2007: No Projects.